



## Induced pluripotent stem cells from highly endangered species.

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Authors: Ben Nun Friedrich, S C Montague, M L Houck, H T Tran, I Garitaonandia, T R Leonardo, Y C

Wang, S J Charter, L C Laurent, O A Ryder, J F Loring

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## **Public Summary:**

For some highly endangered species there are too few reproductively capable animals to maintain adequate genetic diversity, and extraordinary measures are necessary to prevent extinction. We report generation of stem cell lines from two endangered species: a primate, the drill, Mandrillus leucophaeus and the nearly extinct northern white rhinoceros, Ceratotherium simum cottoni. Stem cell lines may eventually facilitate reintroduction of genetic material into breeding populations.

## **Scientific Abstract:**

For some highly endangered species there are too few reproductively capable animals to maintain adequate genetic diversity, and extraordinary measures are necessary to prevent extinction. We report generation of induced pluripotent stem cells (iPSCs) from two endangered species: a primate, the drill, Mandrillus leucophaeus and the nearly extinct northern white rhinoceros, Ceratotherium simum cottoni. iPSCs may eventually facilitate reintroduction of genetic material into breeding populations.

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